

# GC6302M5

TeSys GC - modular contactor - 63 A - 2 NC -  
coil 220...240 V AC



## Main

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Range                          | TeSys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product name                   | TeSys GC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product or component type      | Modular contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Device short name              | GC63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Contactor application          | Heating<br>Motor control<br>Lighting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Utilisation category           | AC-7A<br>AC-7B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Poles description              | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power pole contact composition | 2 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ue] rated operational voltage | <= 250 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Ie] rated operational current | 25 A AC-7B<br>63 A AC-7A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating position             | 30°/Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Control circuit type           | AC 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Control circuit voltage        | 220...240 V AC 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Control type                   | Remote control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting mode                  | Clip-on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mounting support               | DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Connections - terminals        | Power circuit : screw clamp terminals 2 cable(s) 6 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : screw clamp terminals 1 cable(s) 25 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit : screw clamp terminals 2 cable(s) 4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : screw clamp terminals 1 cable(s) 16 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : screw clamp terminals 2 cable(s) 16 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit : screw clamp terminals 1 cable(s) 25 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit : screw clamp terminals 1 cable(s) 1.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit : screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit : screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit : screw clamp terminals 2 cable(s) 2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end |
| Tightening torque              | Power circuit : 2 N.m - on screw clamp terminals<br>Control circuit : 0.8 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Complementary

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage      | 4 kV                                                                   |
| [Ith] conventional free air thermal current | 63 A at <= 50 °C for power circuit                                     |
| Irms rated making capacity                  | 200 A at 400 V AC for power circuit conforming to IEC 61095            |
| Rated breaking capacity                     | 200 A at 400 V for power circuit conforming to IEC 61095               |
| [Icw] rated short-time withstand current    | 157 A <= 40 °C 30 s power circuit<br>504 A <= 40 °C 10 s power circuit |

|                                 |                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| Associated fuse rating          | 63 A gL at ≤ 440 V for power circuit                                                  |
| Average impedance               | 2 mOhm at 50 Hz - lth 63 A for power circuit                                          |
| [Ui] rated insulation voltage   | 500 V conforming to VDE 0110<br>500 V conforming to IEC 61095                         |
| Electrical durability           | AC-7B : 100000 cycles<br>AC-7A : 100000 cycles                                        |
| Standards                       | IEC 60947-5<br>IEC 61095                                                              |
| Operating time                  | 10...30 ms closing<br>10...25 ms opening                                              |
| Mechanical durability           | 1000000 cycles                                                                        |
| Operating rate                  | 300 cyc/h at ≤ 50 °C                                                                  |
| Control circuit voltage limits  | 0.85...1.1 Uc at ≤ 50 °C operational 50 Hz<br>0.2...0.75 Uc at ≤ 50 °C drop-out 50 Hz |
| Hold-in power consumption in VA | 4.6 VA at 20 °C 50 Hz                                                                 |
| Heat dissipation                | 1.6 W at 50/60 Hz                                                                     |

## Environment

|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection               | IP20 conforming to VDE 0106<br>IP40 in enclosure conforming to VDE 0106                                                                                                        |
| Protective treatment                  | TC                                                                                                                                                                             |
| Ambient air temperature for operation | -5...50 °C                                                                                                                                                                     |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                                                                    |
| Operating altitude                    | ≤ 3000 m                                                                                                                                                                       |
| Mechanical robustness                 | Vibrations contactor closed 3 Gn, 5...300 Hz<br>Vibrations contactor open 2 Gn, 5...300 Hz<br>Shocks contactor closed 15 Gn for 11 ms<br>Shocks contactor open 10 Gn for 11 ms |
| Total number of 18 mm modules         | 2                                                                                                                                                                              |
| Height                                | 85 mm                                                                                                                                                                          |
| Width                                 | 36 mm                                                                                                                                                                          |
| Depth                                 | 62.5 mm                                                                                                                                                                        |
| Product weight                        | 0.34 kg                                                                                                                                                                        |
| Quantity per set                      | Set of 6                                                                                                                                                                       |
| Colour                                | White                                                                                                                                                                          |